

Application No. 09/592,404

RECEIVED
CENTRAL FAX CENTER

JUL 02 2004

AMENDMENT TO CLAIMS

Please amend the following claims as indicated:

1. (Currently Amended) An apparatus for auditing security of a remote computer system, comprising:

- a. ~~at least one~~ a secure application server in communication with a global computer network and programmed to receive selectively security audit instruction data from the remote computer system via the global computer network;
- b. a plurality of scanning machines in communication with the global computer network and programmed to execute selectively a security audit scan of the remote computer system via the global computer network, each scanning machine capable of conducting multiple types of security assessments; and
- c. a central computer, having a memory, configured as a database server and as a scheduler, in communication with the secure application server and the plurality of scanning machines, programmed to perform ~~the following~~ operations comprising:
 - a. ~~evaluating~~ evaluate a database to determine if ~~[[a]]the~~ security audit scan is currently scheduled to be run on one of the scanning machines for a user;
 - b. ~~determine which of the plurality of scanning machines is available to perform a security audit scan~~ determining which of the plurality of scanning machines is available to perform the security audit scan by examining a schedule for each scanning machine to identify certain ones of the scanning machines that are conducting another security audit scan or are scheduled to conduct another security audit scan, the available scanning machines comprising all of the scanning machines except for the certain scanning machines;
 - c. copying scan-related information into ~~a one of the available scanning machines~~ determined to be available and instructing the scanning machine to begin the security audit scan; and
 - d. recording the results of the security audit scan in the memory.

OFFICIAL

Application No. 09/592,404

2. (Original) The apparatus of Claim 1, wherein the secure application server comprises a Web server.

3. (Currently Amended) The apparatus of Claim 1, wherein the central computer is further programmed to issue a notification ~~notify the user via e-mail that a~~ the security audit scan is commencing.

4. (Currently Amended) The apparatus of Claim 1, wherein the central computer is further programmed to update the database to indicate that the security audit scan is complete.

5. (Currently Amended) The apparatus of Claim 1, wherein the central computer is further programmed to send a signal representing ~~notify the user of a completion of the a security~~ audit scan.

6. (Currently Amended) The apparatus of Claim 1, wherein when the central computer performs the operation in which the central computer records the results of the security audit scan, the central computer also copies the results~~data~~ to the database and copies a ~~the~~ report to a ~~the~~ file system on [[the]] a database machine when the security audit scan is complete.

[This area intentionally left blank]

Application No. 09/592,404

7. (Currently Amended) A method of auditing security of a remote computer system, comprising the steps of:

- a. ~~receiving from a user, via a global computer network,~~ an instruction to perform a security audit scan on ~~[[a]]the remote computer system;~~
- b. determining which of a plurality of scanning machines is available to perform the security audit scan by examining a schedule for each of the scanning machines to identify certain ones of the scanning machines that are conducting another security audit scan or are scheduled to conduct another security audit scan, the available scanning machines comprising all of the scanning machines except for the certain scanning machines, and wherein each of the scanning machines is capable of conducting a plurality of security assessments; and
- ~~[[b]]c. instructing one of the a-available scanning machines to access the remote computer system via a the global computer network toand thereby perform the security audit scan of the remote computer system. [[; and]]~~
- e. ~~reporting at least one result of the security audit scan to the user once the security audit scan is complete.~~

8. (Currently Amended) The method of Claim 7, further comprising the step of recording a the result of the security audit scan in a computer memory.

9. (Canceled)

[This area intentionally left blank]

Application No. 09/592,404

10. (Currently Amended) A method of auditing computer system security, comprising the steps of:

- a. receiving a schedule request for a security audit scan of a remote computer system, wherein the security audit scan of the remote computer system is scheduled to be conducted after the schedule request is received;
- b. recording the scheduled security audit scan in a database;
- ~~[[a]]~~c. accessing [[a]]the database to determine when [[a]]the scheduled security audit scan of [[a]]the remote computer system is to be executed;
- ~~[[b]]~~d. in response to a determination upon determining that [[a]]the scheduled security audit scan of the remote computer system is to be executed in a predetermined period of time, performing the following steps:
 - i. copying security audit scan data into a scanning system;
 - ii. causing the scanning system to establish communication with the remote computer system via a global computer network; and
 - iii. causing the scanning system to execute [[a]]the scheduled security audit scan of the remote computer system via the global computer network; and
 - iv. ~~storing a result of the security audit scan of the global computer network;~~
- ~~b. transmitting a message to a user of the remote computer system that indicates the result of the security audit scan.~~

11. (New) The method of Claim 7, further comprising the step of receiving at the available scanning machine scan related information for the security audit scan of the remote computer system.

12. (New) The method of Claim 11, wherein the scan related information comprises at least one security assessment to be conducted during the security audit scan.

13. (New) The method of Claim 11, wherein the scan related information comprises an identity of at least one remote computer system upon which to conduct the security audit scan.

14. (New) The method of Claim 7, further comprising the step of sending a message to a user interface that the security audit scan is being conducted.

Application No. 09/592,404

15. (New) The method of Claim 7, wherein the security audit scan comprises a vulnerability assessment.

16. (New) The method of Claim 7, wherein the security audit scan comprises a penetration study.

17. (New) The method of Claim 7, further comprising the step of recording a result of the security audit scan in a database.

18. (New) The method of Claim 17, wherein the result comprises at least one vulnerability of the remote computer system detected by the available scanning machine during the security audit scan.

19. (New) The method of Claim 18, wherein the result further comprises a list of at least one security assessment conducted during the security audit scan.

20. (New) The method of Claim 7, further comprising the step of determining if the available scanning machine is currently conducting the security audit scan on the remote computer system.

21. (New) The method of Claim 7, further comprising the step of receiving from the available scanning machine a notification at a central computer that the security audit scan of the remote computer system is complete.

22. (New) The method of Claim 21, further comprising the step of reporting at least one result of the security audit scan to a user interface.

23. (New) The method of Claim 22, wherein the at least one result of the security audit scan is reported in response to receiving the notification at the central computer that the security audit scan is complete.

24. (New) The method of Claim 10, further comprising the step of transmitting a message to a user interface that indicates a result of the scheduled security audit scan.

Application No. 09/592,404

25. (New) The method of Claim 10, further comprising the step of storing a result of the scheduled security audit scan of the remote computer system in the database.

26. (New) The method of Claim 25, wherein the result is used for a statistical analysis of security on the remote computer system.

27. (New) The method of Claim 10, further comprising the step of determining which of a plurality of scanning systems is available to perform the scheduled security audit scan by examining a schedule of each of the scanning systems to identify certain ones of the scanning systems that are conducting another security audit scan or are scheduled to conduct another security audit scan, the available scanning systems comprising all of the scanning systems except for the certain scanning systems.

28. (New) The method of Claim 10, further comprising the step of examining the scanning system to determine if the scheduled security audit scan is in the process of being conducted on the remote computer system.

29. (New) The method of Claim 10, wherein the security audit scan data comprises at least one security assessment to be conducted during the scheduled security audit scan.

30. (New) The method of Claim 10, wherein the security audit scan data comprises an identity of at least one remote computer system upon which to conduct the scheduled security audit scan.

31. (New) The method of Claim 10, further comprising the step of sending a message to a user interface prior to the commencement of the scheduled security audit scan.

32. (New) The method of Claim 10, further comprising the step of storing a result of the scheduled security audit scan of the remote computer system.

33. (New) The method of Claim 32, wherein the result comprises at least one vulnerability of the remote computer system detected by the scanning system during the scheduled security audit scan.

34. (New) The method of Claim 33, wherein the result further comprises a list of at least one security assessment conducted during the scheduled security audit scan.

Application No. 09/592,404

35. (New) The method of Claim 10, further comprising the step of determining if a request for an immediate security audit scan of one of a plurality of computer systems has been received in response to a determination that the scheduled security audit scan of the remote computer system will be executed outside of the predetermined period of time.

36. (New) The method of Claim 10, further comprising the step of receiving from the scanning system a notification at a central computer that the scheduled security audit scan of the remote computer system is complete.

[This area intentionally left blank]

Application No. 09/592,404

37. (New) A method of conducting a security audit scan of a remote computer system comprising the steps of :

- a. receiving a request to schedule the security audit scan of the remote computer system;
- b. recording a scheduled security audit scan in a database;
- c. accessing the database to determine when the scheduled security audit scan of the remote computer system is to be executed; and
- d. in response to a determination that the scheduled security audit scan of the remote computer system is to be executed, performing the following steps:
 1. determining which of a plurality of scanning machines is available to perform the scheduled security audit scan by examining a schedule for each of the scanning machines to identify certain ones of the scanning machines that are conducting another security audit scan or are scheduled to conduct another security audit scan; and
 2. causing one of the available scanning machines to access the remote computer system and execute the scheduled security audit scan.

38. (New) The method of Claim 37, further comprising the step of receiving at the available scanning machine scan related information from a central computer for the scheduled security audit scan of the remote computer system.

39. (New) The method of Claim 38, wherein the scan related information comprises at least one security assessment to be conducted during the scheduled security audit scan.

40. (New) The method of Claim 37, further comprising the step of sending a message to a user interface that the scheduled security audit scan is being conducted.

41. (New) The method of Claim 37, wherein the scheduled security audit scan comprises a vulnerability assessment.

42. (New) The method of Claim 37, further comprising the step of recording a result of the scheduled security audit scan in the database.

43. (New) The method of Claim 42, wherein the result comprises at least one vulnerability of the remote computer system detected by the available scanning machine during the scheduled security audit scan.

Application No. 09/592,404

44. (New) The method of Claim 37, further comprising the step of examining the available scanning machine to determine if the scheduled security audit scan is in the process of being conducted on the remote computer system.

45. (New) The method of Claim 37, further comprising the step of receiving from the available scanning machine a notification at a central computer that the scheduled security audit scan is complete.

46. (New) The method of Claim 37, further comprising the step of reporting at least one result of the scheduled security audit scan to a user interface.

47. (New) The method of Claim 46, wherein the at least one result is reported in response to receiving a notification at a central computer that the scheduled security audit scan is complete.

[This area intentionally left blank]